

Title (en)
Method for determining the needed transmission power in a CDMA network

Title (de)
Verfahren zum Bestimmen der notwendigen Sendeleistung in einem CDMA-Netz

Title (fr)
Procédé pour déterminer la puissance d'émission nécessaire dans un réseau CDMA

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Application
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Abstract (en)
The present invention concerns a method for determining the needed transmission power for establishing a radio communication link between a transmitter unit (Ei) among a plurality of transmitter units (E) gathered together in several geographically spread base stations and a receiver unit (Rj) among a plurality of receiver units (R), with a given signal-to-interference ratio (SIRRj) at the receiver unit (Rj), wherein the transmission power (Pt), especially the initial transmission power (Pt,init) is calculated as follows: PL is the pathloss obtained as the ratio between reported received power (PRj) at the receiver unit (Rj) and known transmitted power (Pti) by the transmitter unit (Ei) ; I_{intra} is the interference power received at the receiver unit (Rj) from all other transmitter units (EBS) of the base station (BS) comprising the transmitter unit (Ei), and, I_{extra} is the interference power received at the receiver unit (Rj) from the transmitter units (E) from all base stations of the network, except the base station (BS) incorporating transmitter unit (Ei).

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H04W 52/243 (2013.01); **H04W 52/40** (2013.01); **H04W 52/50** (2013.01)

Citation (search report)
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